Guide to Pythium Diagnosis and Treatment in Turf

Solution	High Temperature Pythium Blight	Low Temperature Pythium Blight	Pyhtium Root Rot	Pythium Root Dysfunction
Main Pythium species present	P. aphanidermartum P. myrilotylum	P. graminicola P. ultimum	P. graminicola P. ultimum P. torulosum + others	P. volutum
Conditions favouring development	Daytime temps 29-35C; night temps >20C Hot and wet Newly seeded turf in hot wet weather (damping off)	Cool and wet weather Day temps < 13-16C	Worse on stressed turf Hot, Cold and wet Symptoms seen in Summer months Anytime soil is waterlogged for extended periods	New greens < 10 years old Sand based root zones Spring/Autumn temps 10-25C See damage under Summer stress
Cultural Conditions favouring development	High N poor drainage and air movement	High N poor drainage and air movement	Poor drainage and air movement Turf under stress	Low nutrient status Compact soils Turf under stress
Host	Mainly cool season turf	Mainly warm season turf	Cool and warm season turf	Creeping bentgrass
Primary Location	Perennial ryegrass Creeping bentgrass Poa annua Fescues	Mainly warm season turf	Creeping bentgrass Poa annua	Creeping bentgrass
Symptoms	Collapsed leaves and stems. Cicular patches		Irregular patterns of orange or yellow turf, Irregular plants appear dark and greasy	Roots appear dark and have no root hairs. Plant discolouration, thiining and death.
Shrapnel 600 **FRAC Group 28**	4.5-6.5 L/Ha as a preventative and curative every 7-21 days. Use shorter interval under high disease pressure. Apply in 800-2000L water with the higher water volume with high cut turf. Water in for root rot. Leave on leaf for blight			
Grenadier 800 **FRAC Group 33**	12.5 Kg/Ha + 1 L/Ha Vertmax Duo at 14-21 Day interval in 600-800 L/Ha water			
Segway 400 **FRAC Group 21**	1 L/Ha in 400-500 L water/Ha every 21 Days	1 L/Ha in 400-500 L water/Ha every Days	1 L/Ha in 400-500 water/Ha every 21 Days	1 L/Ha in 400-500 L water/Ha every 21 Days
Terrazole 350 **FRAC Group 14**	Curative. 10-25 Kg/Ha in 2,500 L water/Ha every 5-10 Days		Curative. 10-25 Kg/Ha in 2,500 L water/Ha every 5-10 Days	
Solitaire 240 **FRAC Group 4**	1.7-3.5 L/Ha at 14-21 Day intervals in 350-500 L/Ha	1.7-3.5 L/Ha at 14-21 Day intervals in 350-500 L/Ha	1.7-3.5 L/Ha at 14-21 Day intervals in 350-500 L/Ha	

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